

INTELLIGENT IP RELAY

ABSTRACT OF THE DISCLOSURE

5 A proxy at the interface between a wireless
communications system and a packet network intercepts all
traffic between the wireless communications systems and the
packet network and re-formats the intercepted traffic
10 according to an optimal maximum transmission unit size
between the interception point and the final destination,
excluding the wireless link from computation of the optimal
maximum transmission unit size. Typically this will result
in packets from the wireless communications system being
aggregated into a larger maximum transmission unit size,
15 while packets from the packet network are fragmented into a
smaller maximum transmission unit size. Congestion at
intermediate nodes within the packet network is reduced,
while end-to-end bandwidth utilization and latency at the
final destination are improved.